

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK
GOVERNOR

TIMOTHY P. MURRAY
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD
SECRETARY

JOHN AUERBACH
COMMISSIONER

10/18/2011

Christopher McMahon
Assistant District Attorney, Middlesex County

Dear ADA McMahon,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED] Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan and Kate Corbett.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Kate Corbett was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan".

Annie Dookhan
Chemist
Drug Analysis Lab
Jamaica Plain, MA. 02130
(617) 983-6622

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

*Maintenance and repairs of all analytical instruments.

*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

*Oversee the Quality Control/Quality Assurance program for the Drug Lab.

*Writing, revising and reviewing Standard Operating Procedures (SOPs) and Protocols.

*Notary Public.

*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

*Writing, revising and reviewing Standard Operating Procedures (SOPs).

*Trained and supervised new chemists and interns for the department.

*Routine QC testing of products for the FDA.

*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

*Complete testing of chemicals for Vendor Validation Project for the FDA.

*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP training with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS trainings with Agilent Technologies and Restek.

HPLC and LC/MS/MS trainings with Waters Cooperation.

FTIR training with Spectros.

TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

Curriculum Vitae

Kate A. Corbett

Education

Bachelor of Science Degree, CHEMISTRY May 2003

MERRIMACK COLLEGE

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

Employment

Chemist II State Laboratory Institute (March 2008-Present)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

Chemist I State Laboratory Institute (2005-March 2008)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005.

Research Associate (September 2003 – August 2005)

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- Prepared chemistries used in making sensor beads
- Generated and examined sensors employing fluorescence spectroscopy
- Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

Intern (March 2003 – August 2003)

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units

PLEASE PRINT CLEARLY OR TYPE ALL INFORMATION

The Commonwealth of Massachusetts

Executive Office of Health and Human Services

Department of Public Health

State Laboratory Institute

Boston Drug Laboratory

Tel (617) 983-6622

Fax (617) 983-6625

Amherst Drug Laboratory

Tel (413) 545-2601

Fax (413) 545-2608

Boston Hours

8:00 – 11:00

2:00 – 4:00

Amherst Hours

9:00 – 12:00

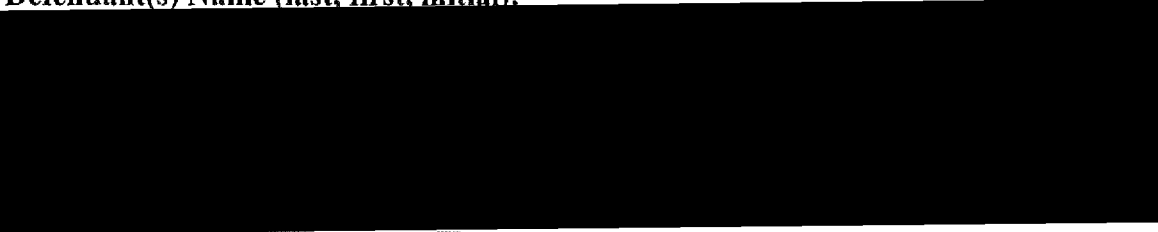
1:00 – 3:00

DRUG RECEIPT

City or Department: LOWELL Police Reference No.: 

Name and Rank of Submitting Officer: DET. BRYAN W. MCMAHON

Defendant(s) Name (last, first, initial):




To be completed by Submitter

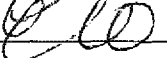
Description of Items Submitted

To be completed by Lab Personnel

Gross Weight

Lab Number

| | | |
|--|--------|---|
| PLASTIC PACKETS w/POWDER - HEROIN - 50 | 23.13g |  |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Received by:  Date: 3-17-09

No. [REDACTED] Date Analyzed: 12/2/09
City: Lowell Police Dept.
Officer: Detective BRYAN MCMAHON

Def: [REDACTED]
Amount: Subst: SUB
No. Cont: 50 Cont: ~~plastic packet~~ pb

Date Rec'd: 03/17/2009 No. Analyzed: 5

Gross Wt: 23.130 Net Wt: 12.64

#Tests: 20 ASD

Prelim: Heroin Findings:

• 10 KAC

Heroin

DRUG POWDER ANALYSIS FORM

SAMPLE # [REDACTED] AGENCY Lowell ANALYST ASD

No. of samples tested: Evidence Wt.

PHYSICAL DESCRIPTION:

Beige powdered substance
in 50 pbs

Gross Wt (SC): 20.8635

Gross Wt (B): 2.0878

Pkg. Wt:

Net Wt:

→

PRELIMINARY TESTS

Spot Tests

Cobalt
3 Thiocyanate (+)
5 Marquis +
5 Froehde's +
5 Mecke's +

Microcrystalline Tests

Gold
Chloride
TLTA ()

OTHER TESTS

PRELIMINARY TEST RESULTS

RESULTS Heroin

DATE 11-30-09

GC/MS CONFIRMATORY TEST

RESULTS Heroin

MS
OPERATOR KAC

DATE 12-2-9

Sample #



samples tested: 5

| # | Gross Weight | Packet Weight | Net Weight | # | Gross Weight | Packet Weight | Net Weight |
|----|--------------|---------------|------------|----|--------------|---------------|------------|
| 1 | 0.4211 | 0.1670 | 0.2541 | 26 | | | |
| 2 | 0.4224 | 0.1624 | 0.2600 | 27 | | | |
| 3 | 0.4078 | 0.1639 | 0.2419 | 28 | | | |
| 4 | 0.3939 | 0.1697 | 0.2242 | 29 | | | |
| 5 | 0.4430 | 0.1586 | 0.2844 | 30 | | | |
| 6 | | | | 31 | | | |
| 7 | | | | 32 | | | |
| 8 | | | | 33 | | | |
| 9 | | | | 34 | | | |
| 10 | | | | 35 | | | |
| 11 | | | | 36 | | | |
| 12 | | | | 37 | | | |
| 13 | | | | 38 | | | |
| 14 | | | | 39 | | | |
| 15 | | | | 40 | | | |
| 16 | | | | 41 | | | |
| 17 | | | | 42 | | | |
| 18 | | | | 43 | | | |
| 19 | | | | 44 | | | |
| 20 | | | | 45 | | | |
| 21 | | | | 46 | | | |
| 22 | | | | 47 | | | |
| 23 | | | | 48 | | | |
| 24 | | | | 49 | | | |
| 25 | | | | 50 | | | |

Calculations: Net wt

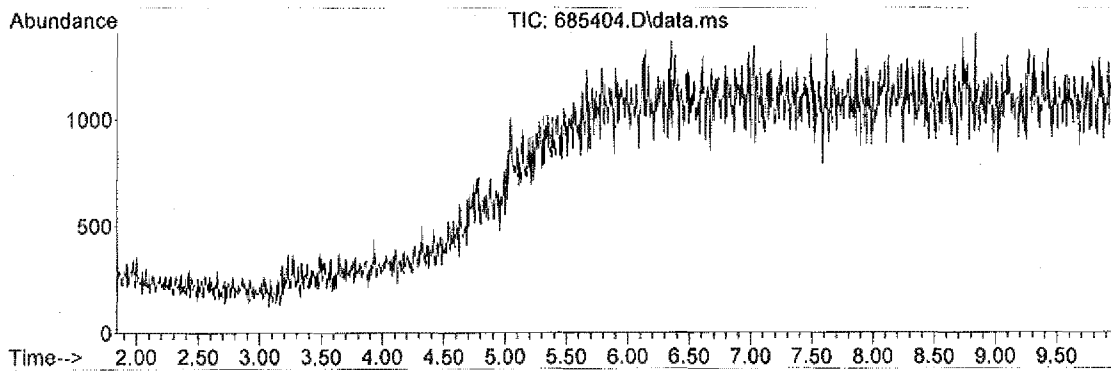
$$\text{Est Net wt} = 1.2646 / 5 = 0.2529 (50) \\ = 12.6450$$

Area Percent / Library Search Report

VKAC
10/14/11

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_01_09\685404.D
Operator : DJR
Date Acquired : 1 Dec 2009 10:20
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE



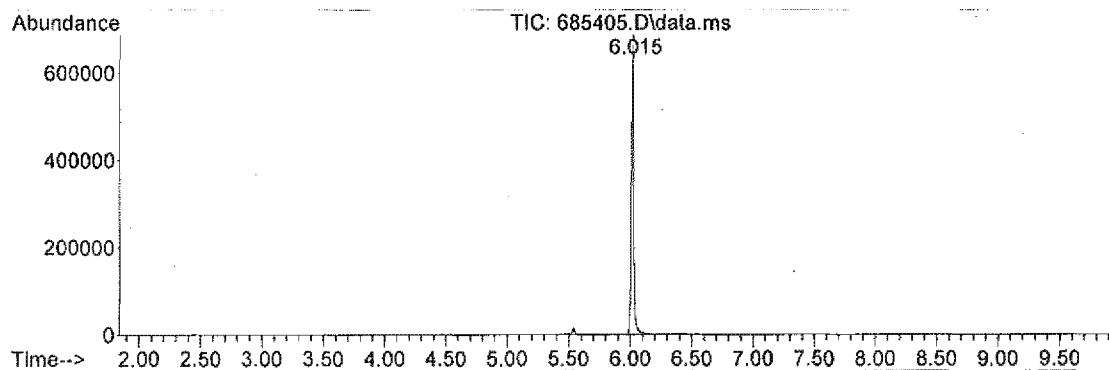
| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_01_09\685405.D
 Operator : DJR
 Date Acquired : 1 Dec 2009 10:33
 Sample Name : HEROIN STD
 Submitted by :
 Vial Number : 5
 AcquisitionMeth: DRUGS.M
 Integrator : RTE



| Ret. Time | Area | Area % | Ratio % |
|-----------|--------|--------|---------|
| 6.015 | 921228 | 100.00 | 100.00 |

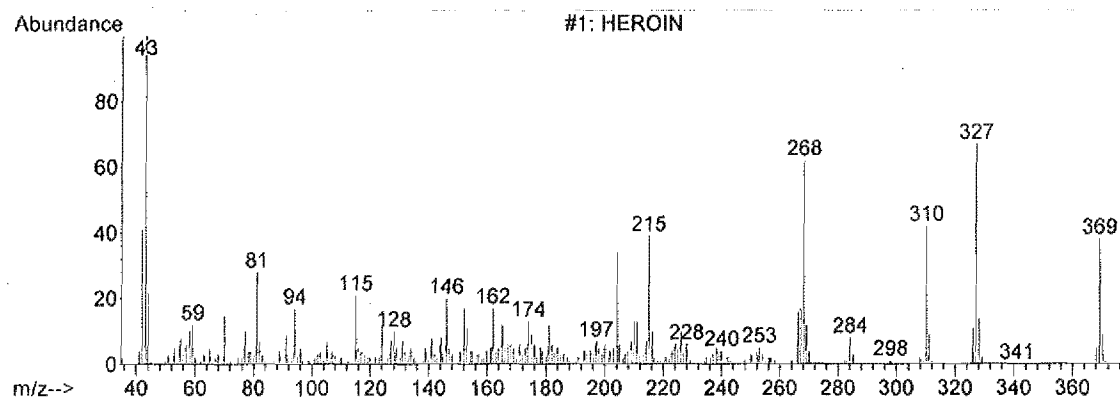
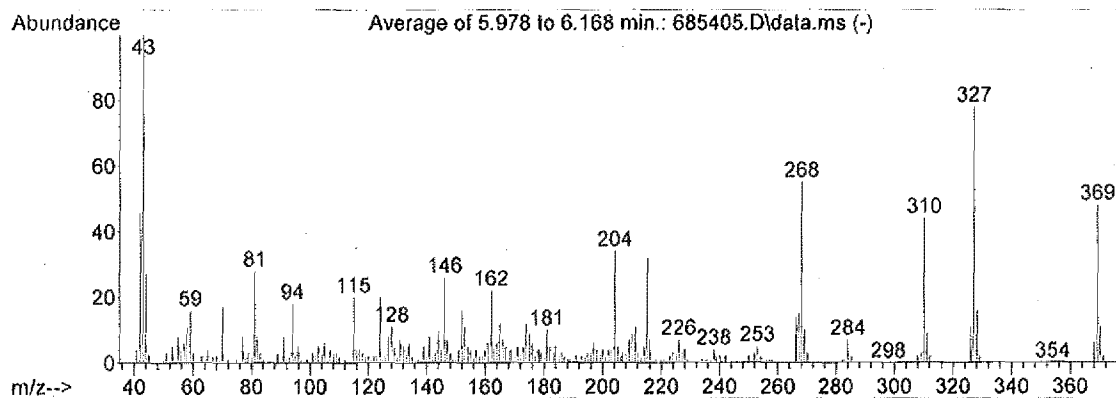
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_01_09\685405.D
 Operator : DJR
 Date Acquired : 1 Dec 2009 10:33
 Sample Name : HEROIN STD
 Submitted by :
 Vial Number : 5
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

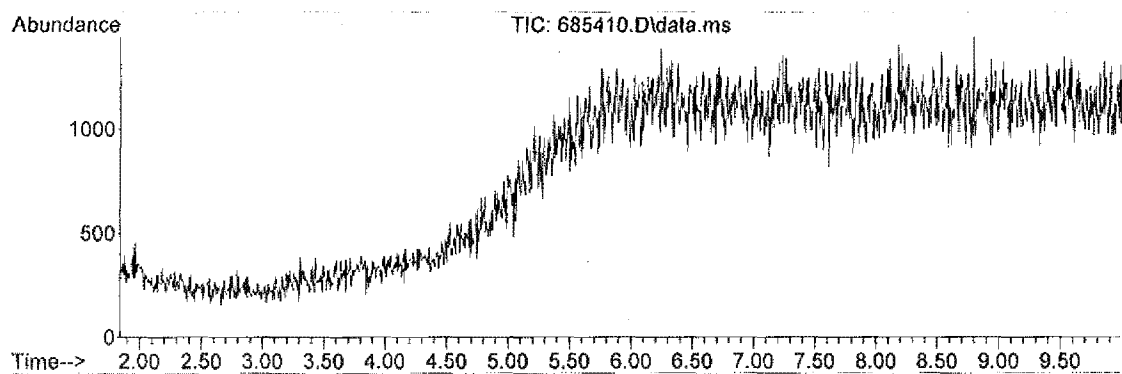
| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|-----------------------------|-------------|------|
| 1 | 6.01 | C:\Database\SLI.L HEROIN | 000561-27-3 | 99 |



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_01_09\685410.D
Operator : DJR
Date Acquired : 1 Dec 2009 11:36
Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE



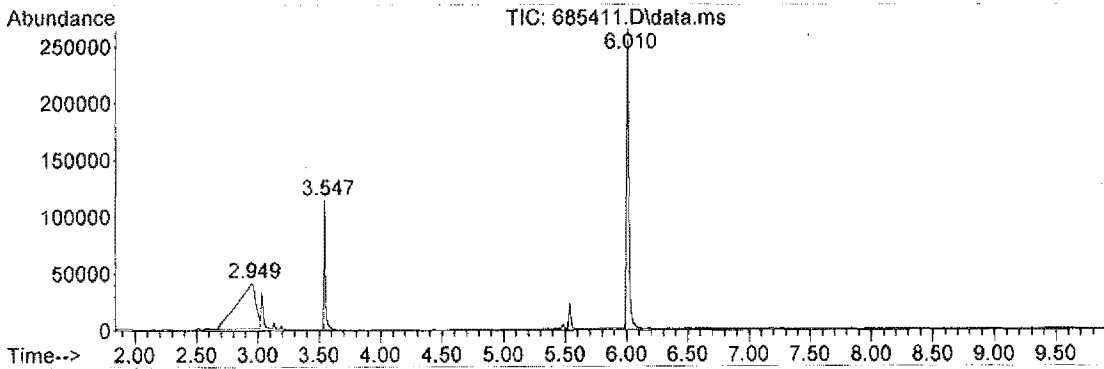
| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_01_09\685411.D
 Operator : DJR
 Date Acquired : 1 Dec 2009 11:49
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 11
 AcquisitionMeth: DRUGS.M
 Integrator : RTE



| Ret. Time | Area | Area % | Ratio % |
|-----------|--------|--------|---------|
| 2.949 | 428479 | 47.89 | 100.00 |
| 3.547 | 114949 | 12.85 | 26.83 |
| 6.010 | 351240 | 39.26 | 81.97 |

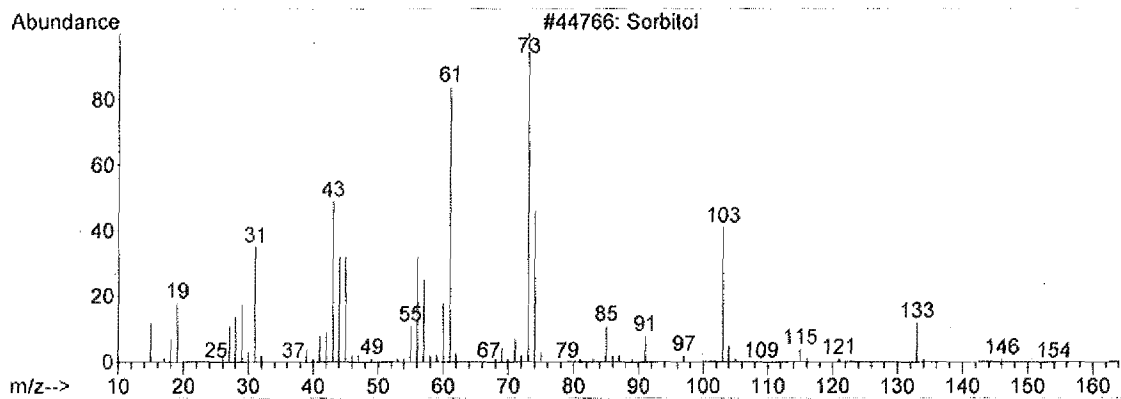
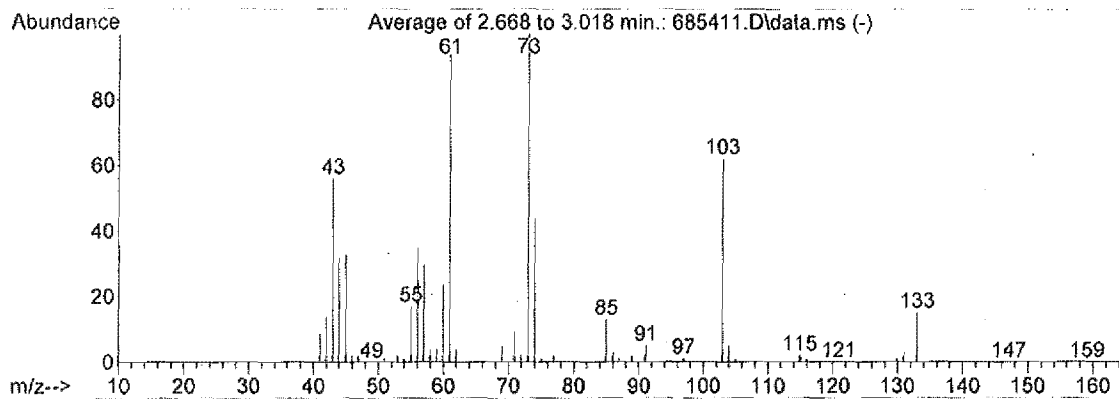
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_01_09\685411.D
 Operator : DJR
 Date Acquired : 1 Dec 2009 11:49
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 11
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|-----------------------|-------------|------|
| 1 | 2.95 | C:\Database\NIST05a.L | | |
| | | Sorbitol | 000050-70-4 | 91 |
| | | Glucitol | 026566-34-7 | 90 |
| | | D-Mannitol | 000069-65-8 | 90 |



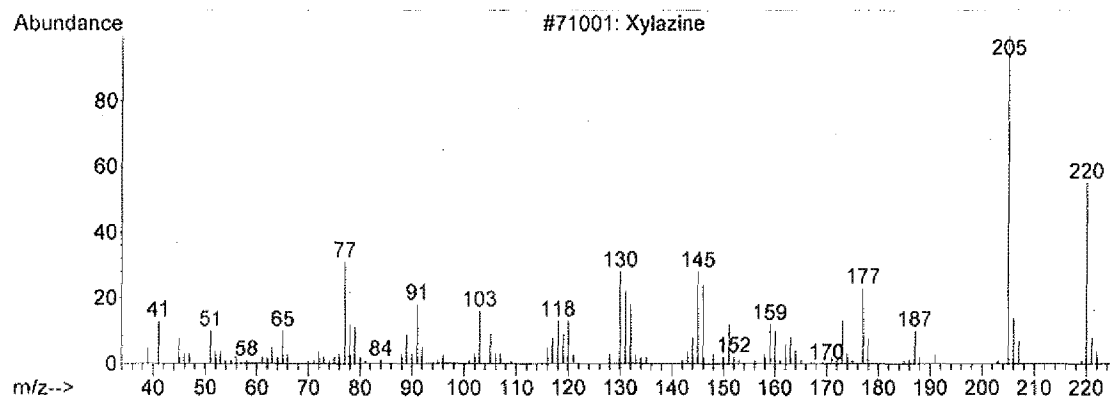
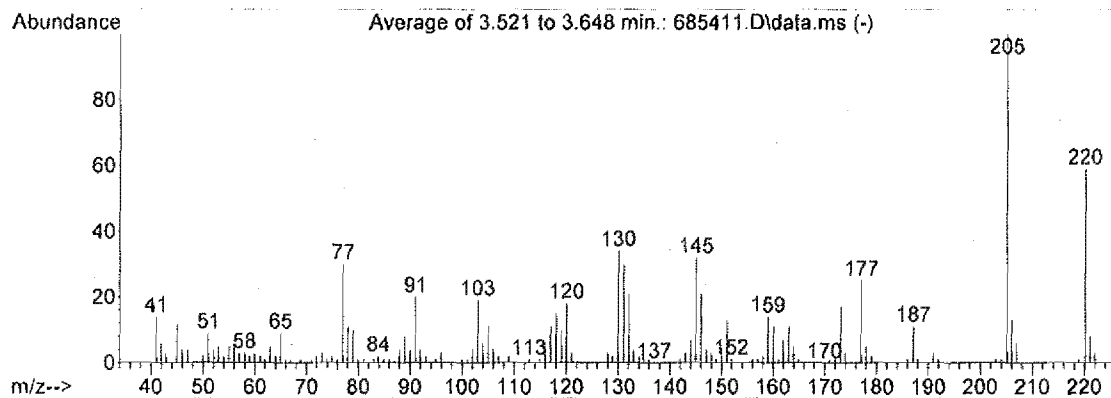
Area Percent / Library Search Report

Information from Data File:

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 Operator : DJR
 Date Acquired : 1 Dec 2009 11:49
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 11
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|-----------------------|--------------|------|
| 2 | 3.55 | C:\Database\NIST05a.L | | |
| | | Xylazine | 007361-61-7 | 96 |
| | | Xylazine | 007361-61-7 | 94 |
| | | 9-Cedranone | 1000156-23-2 | 89 |



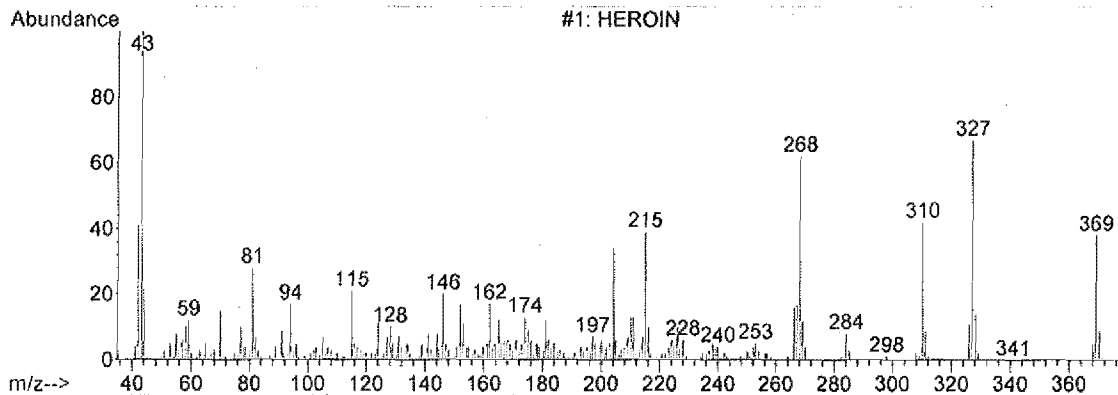
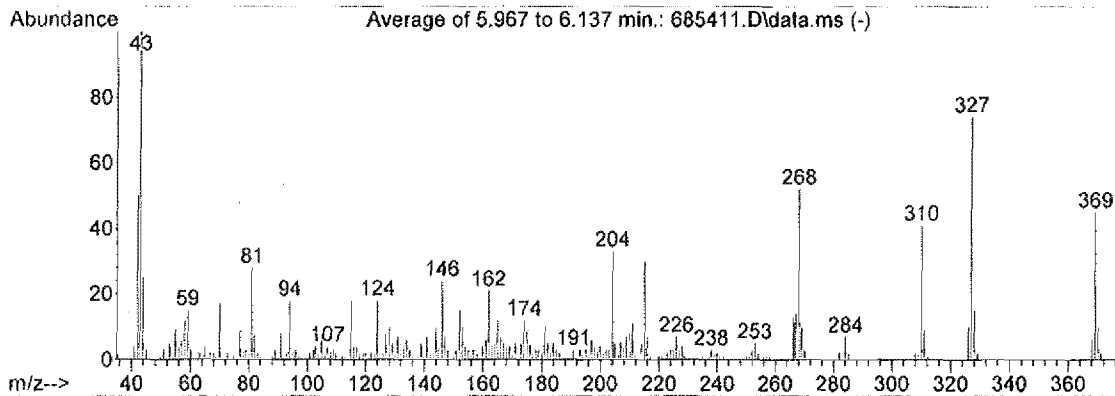
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_01_09\685411.D
 Operator : DJR
 Date Acquired : 1 Dec 2009 11:49
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 11
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

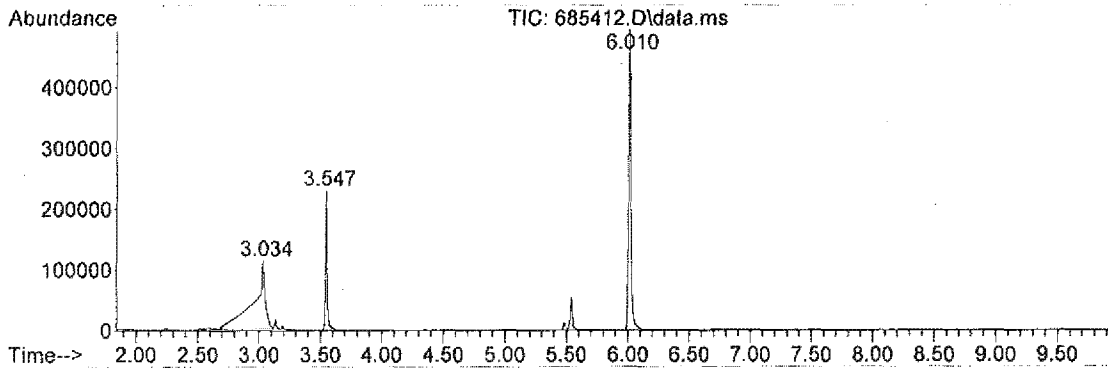
| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|-----------------------------|-------------|------|
| 3 | 6.01 | C:\Database\SLI.L HEROIN | 000561-27-3 | 98 |



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_01_09\685412.D
 Operator : DJR
 Date Acquired : 1 Dec 2009 12:02
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 12
 AcquisitionMeth: DRUGS.M
 Integrator : RTE



| Ret. Time | Area | Area % | Ratio % |
|-----------|--------|--------|---------|
| 3.034 | 766215 | 45.55 | 100.00 |
| 3.547 | 230682 | 13.71 | 30.11 |
| 6.010 | 685170 | 40.73 | 89.42 |

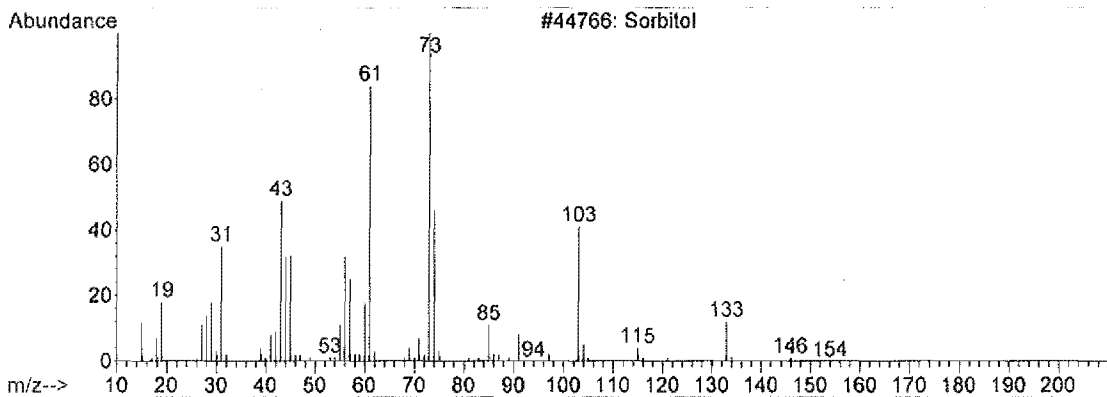
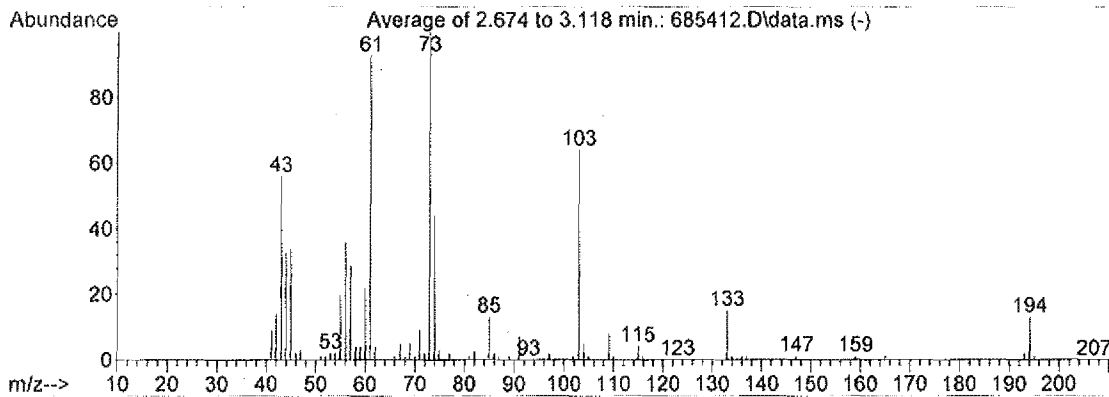
Area Percent / Library Search Report

Information from Data File:

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 Operator : DJR
 Date Acquired : 1 Dec 2009 12:02
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 12
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|-----------------------|-------------|------|
| 1 | 3.03 | C:\Database\NIST05a.L | | |
| | | Sorbitol | 000050-70-4 | 91 |
| | | D-Mannitol | 000069-65-8 | 86 |
| | | Sorbitol | 000050-70-4 | 83 |



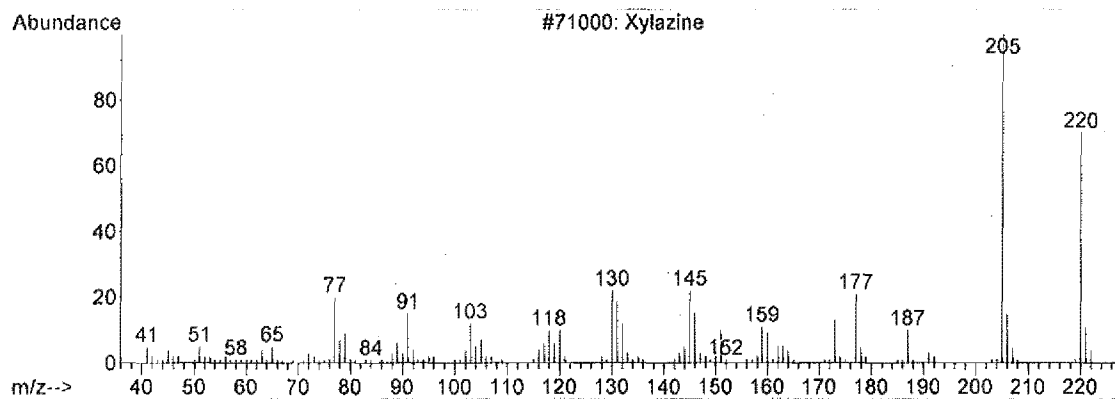
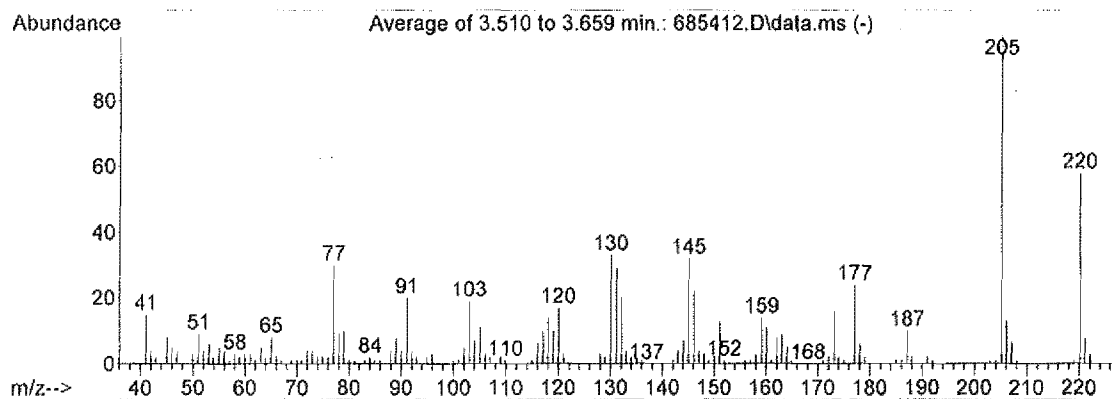
Area Percent / Library Search Report

Information from Data File:

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 Operator : DJR
 Date Acquired : 1 Dec 2009 12:02
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 12
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|-----------------------|--------------|------|
| 2 | 3.55 | C:\Database\NIST05a.L | | |
| | | Xylazine | 007361-61-7 | 99 |
| | | Xylazine | 007361-61-7 | 99 |
| | | 9-Cedranone | 1000156-23-2 | 89 |



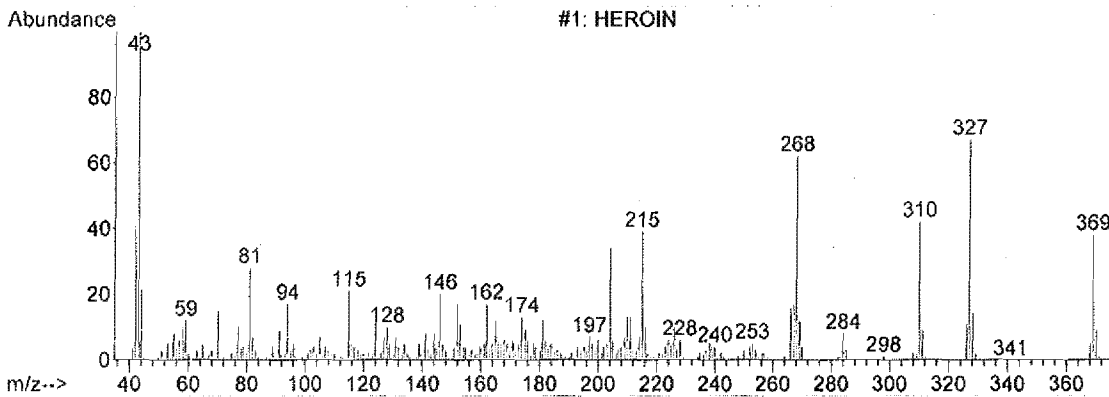
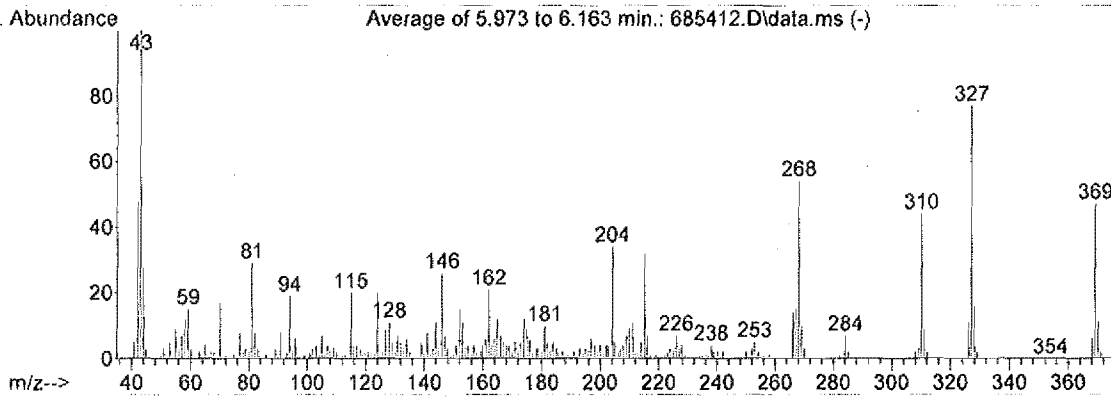
Area Percent / Library Search Report

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 Operator : DJR
 Date Acquired : 1 Dec 2009 12:02
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 12
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

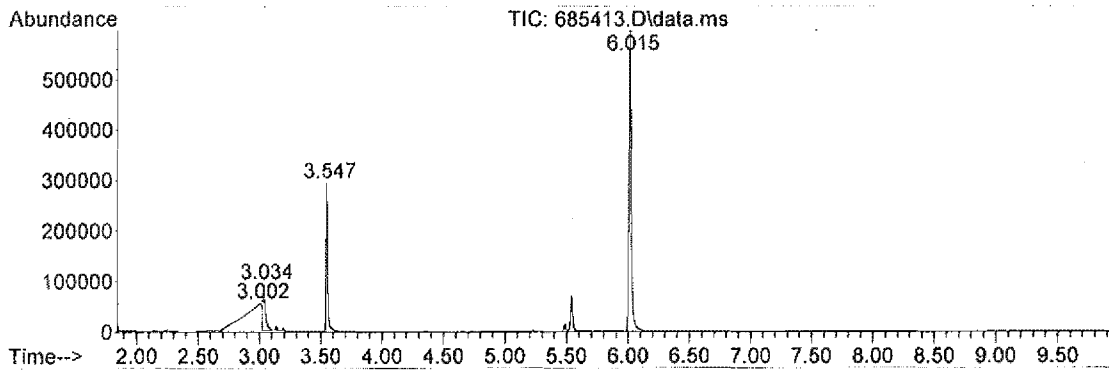
| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|-----------------------------|-------------|------|
| 3 | 6.01 | C:\Database\SLI.L HEROIN | 000561-27-3 | 99 |



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_01_09\685413.D
 Operator : DJR
 Date Acquired : 1 Dec 2009 12:14
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 13
 AcquisitionMeth: DRUGS.M
 Integrator : RTE



| Ret. Time | Area | Area % | Ratio % |
|-----------|--------|--------|---------|
| 3.002 | 563573 | 31.54 | 69.67 |
| 3.034 | 130185 | 7.29 | 16.09 |
| 3.547 | 284224 | 15.91 | 35.14 |
| 6.015 | 808943 | 45.27 | 100.00 |

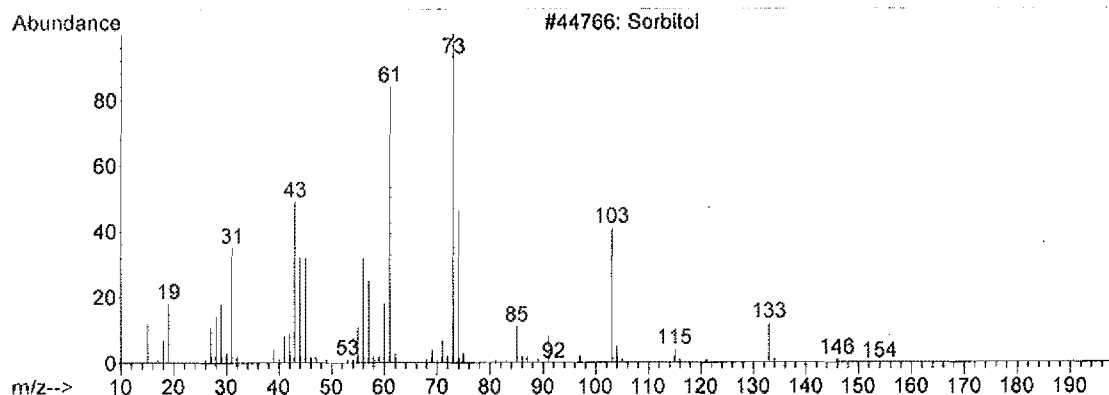
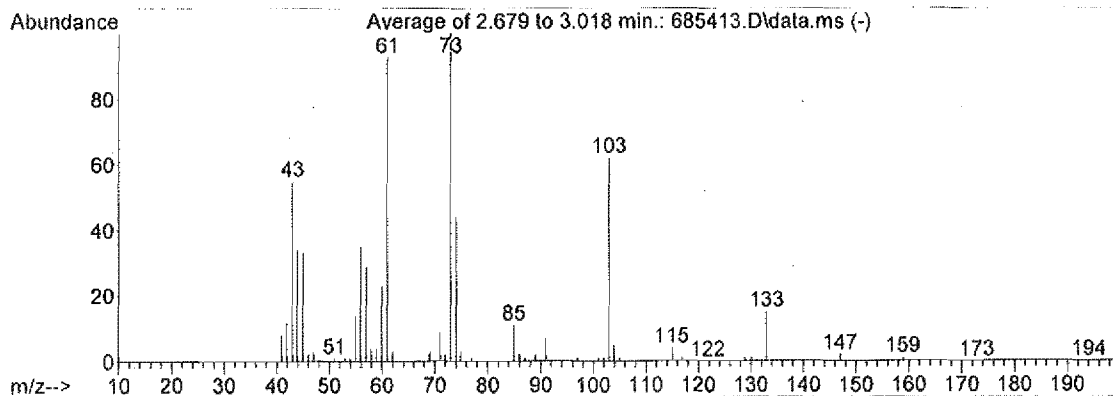
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_01_09\685413.D
 Operator : DJR
 Date Acquired : 1 Dec 2009 12:14
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 13
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|-----------------------|-------------|------|
| 1 | 3.00 | C:\Database\NIST05a.L | | |
| | | Sorbitol | 000050-70-4 | 91 |
| | | Sorbitol | 000050-70-4 | 91 |
| | | D-Mannitol | 000069-65-8 | 90 |



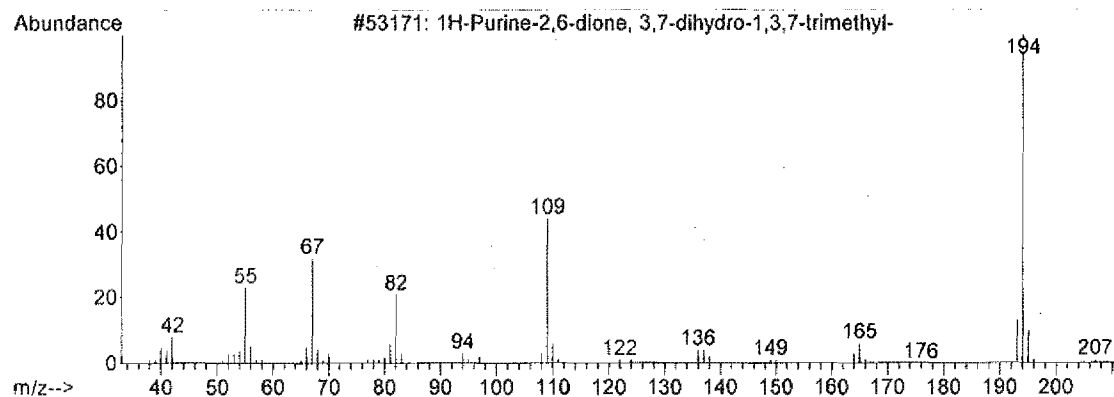
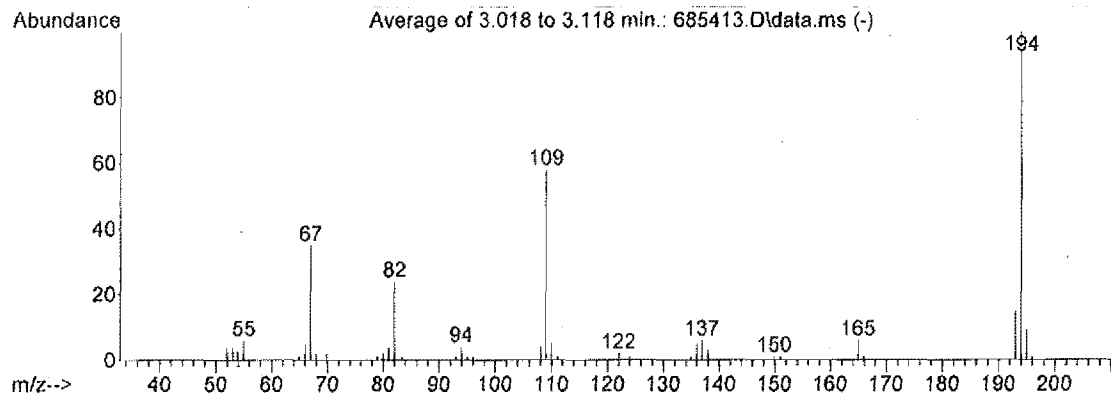
Area Percent / Library Search Report

Information from Data File:

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Operator : DJR
Date Acquired : 1 Dec 2009 12:14
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 13
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|-------------------------------------|-------------|------|
| 2 | 3.03 | C:\Database\NIST05a.L | | |
| | | 1H-Purine-2,6-dione, 3,7-dihydro-1, | 000058-08-2 | 95 |
| | | 1H-Purine-2,6-dione, 3,7-dihydro-1, | 000058-08-2 | 91 |
| | | 1H-Purine-2,6-dione, 3,7-dihydro-1, | 000058-08-2 | 91 |



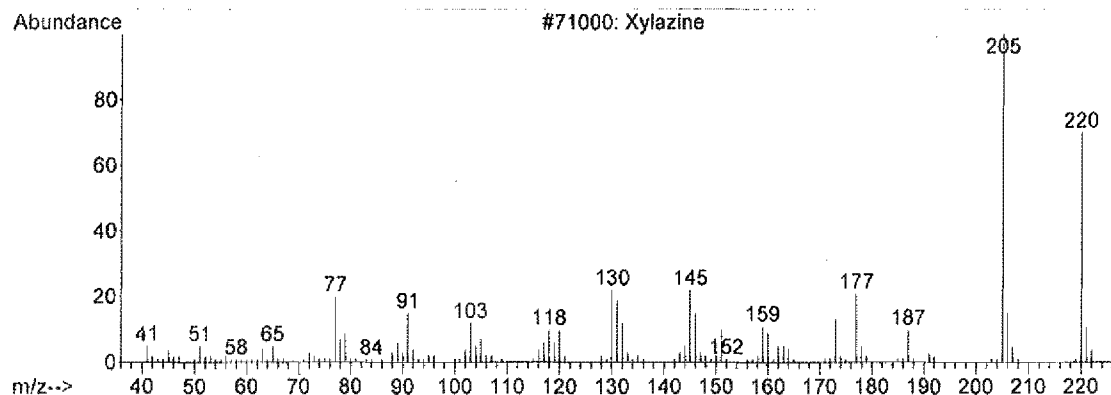
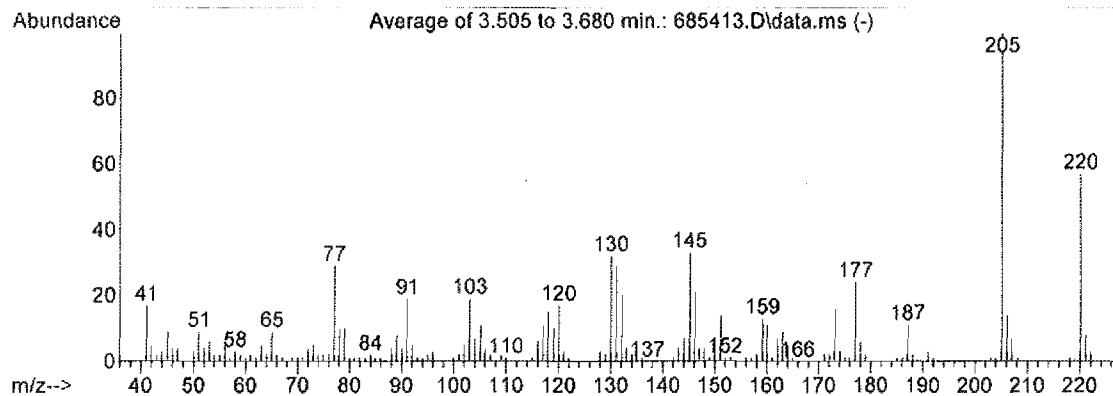
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_01_09\685413.D
 Operator : DJR
 Date Acquired : 1 Dec 2009 12:14
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 13
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|-----------------------|--------------|------|
| 3 | 3.55 | C:\Database\NIST05a.L | | |
| | | Xylazine | 007361-61-7 | 99 |
| | | Xylazine | 007361-61-7 | 99 |
| | | 9-Cedranone | 1000156-23-2 | 78 |



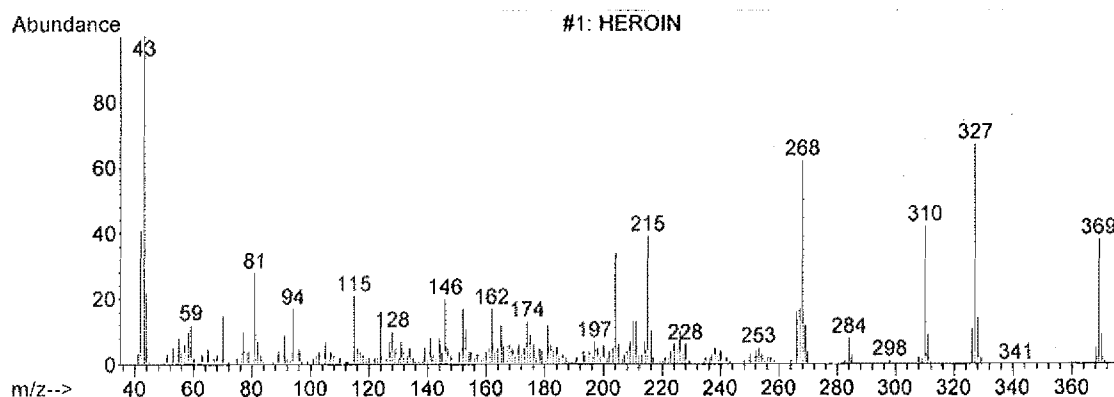
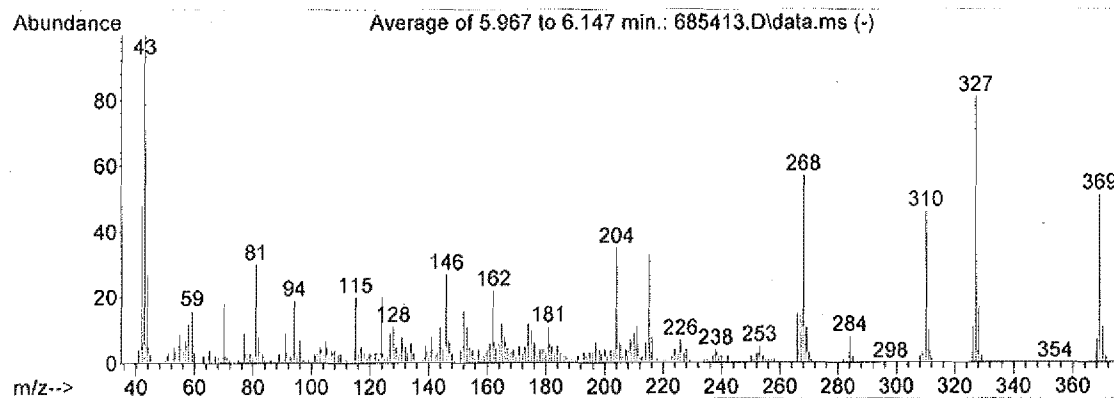
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_01_09\685413.D
 Operator : DJR
 Date Acquired : 1 Dec 2009 12:14
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 13
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

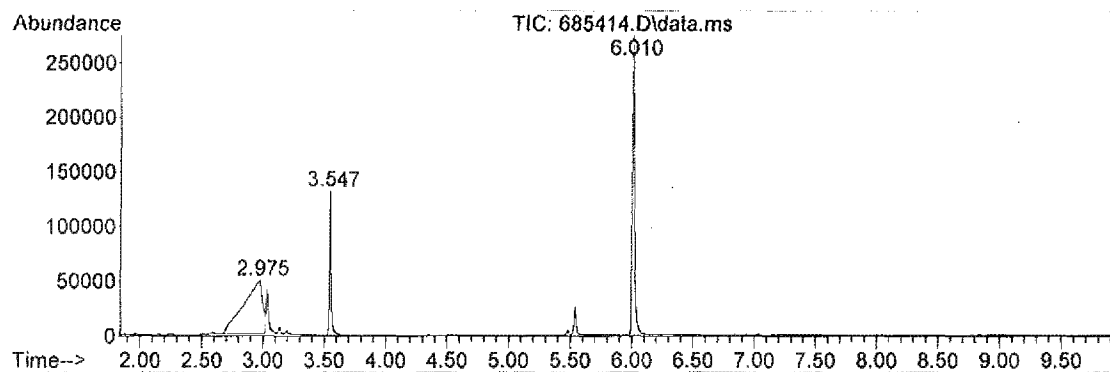
| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|-----------------------------|-------------|------|
| 4 | 6.01 | C:\Database\SLI.L HEROIN | 000561-27-3 | 98 |



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_01_09\685414.D
 Operator : DJR
 Date Acquired : 1 Dec 2009 12:27
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 14
 AcquisitionMeth: DRUGS.M
 Integrator : RTE



| Ret. Time | Area | Area % | Ratio % |
|-----------|--------|--------|---------|
| 2.975 | 530873 | 51.79 | 100.00 |
| 3.547 | 131687 | 12.85 | 24.81 |
| 6.010 | 362562 | 35.37 | 68.30 |

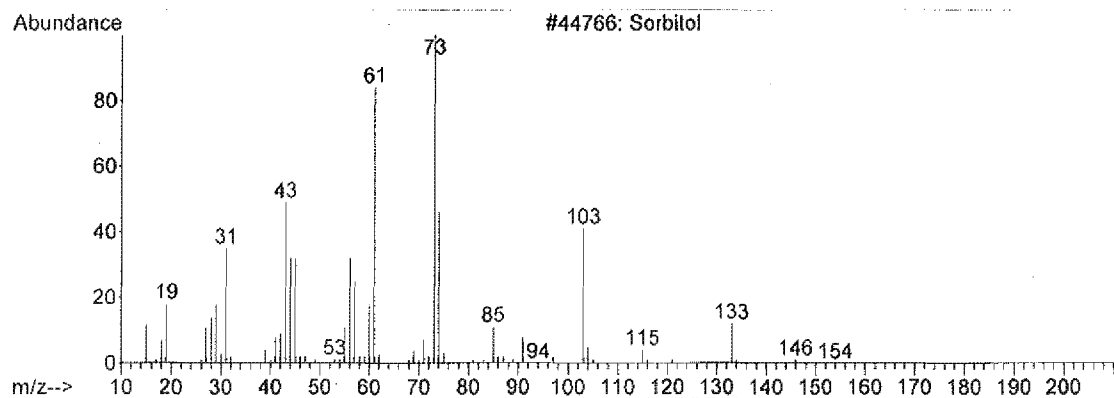
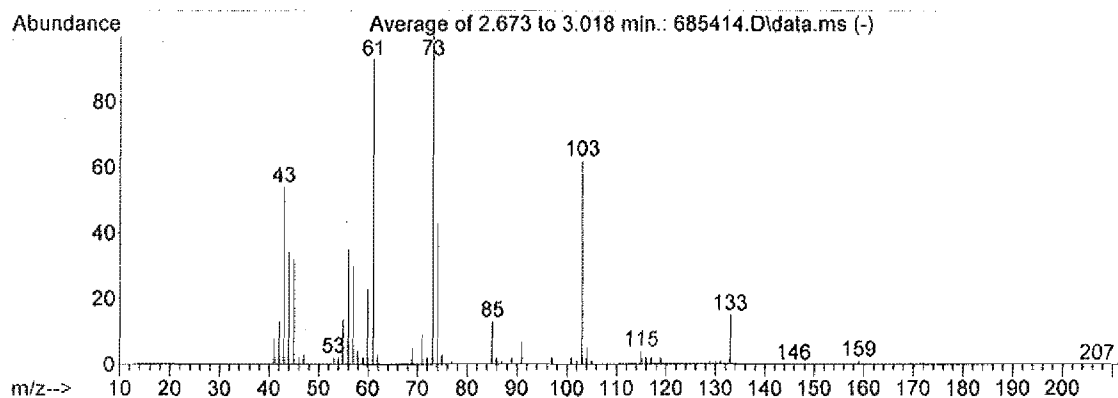
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_01_09\685414.D
 Operator : DJR
 Date Acquired : 1 Dec 2009 12:27
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 14
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|-----------------------|-------------|------|
| 1 | 2.98 | C:\Database\NIST05a.L | | |
| | | Sorbitol | 000050-70-4 | 91 |
| | | D-Mannitol | 000069-65-8 | 90 |
| | | Sorbitol | 000050-70-4 | 87 |



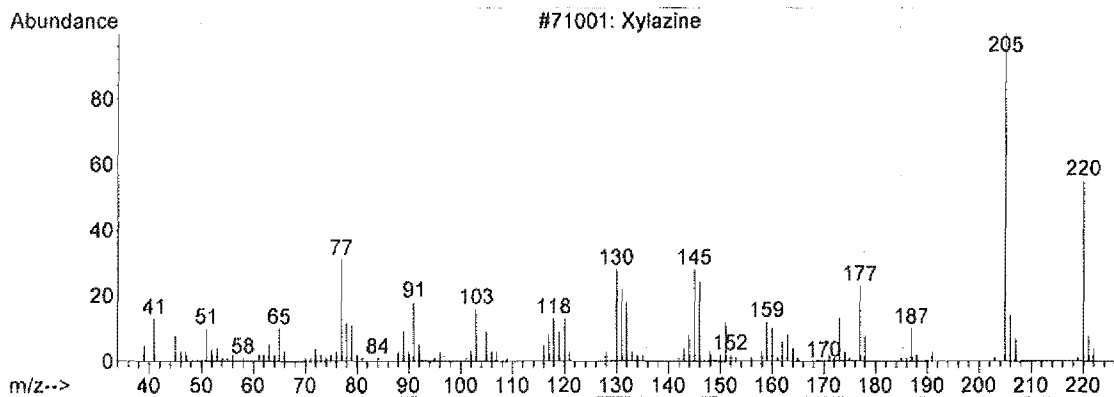
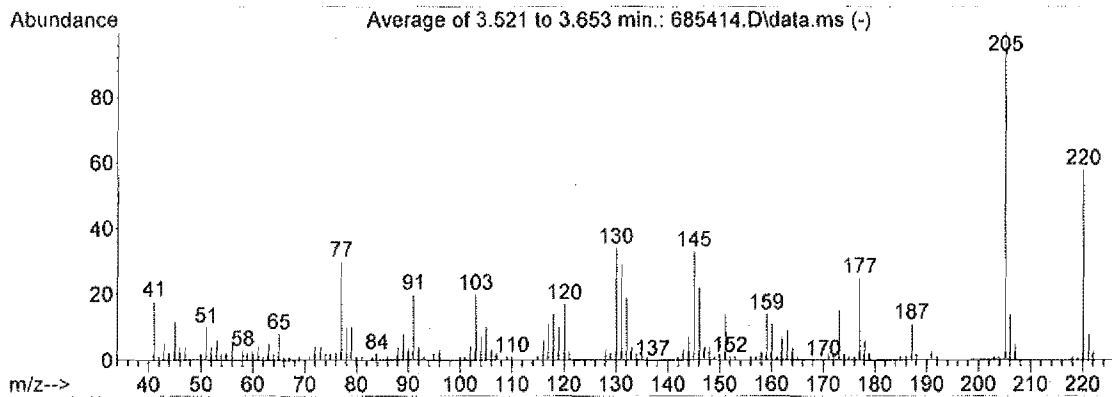
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_01_09\685414.D
 Operator : DJR
 Date Acquired : 1 Dec 2009 12:27
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 14
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|-----------------------|--------------|------|
| 2 | 3.55 | C:\Database\NIST05a.L | | |
| | | Xylazine | 007361-61-7 | 99 |
| | | 9-Cedranone | 1000156-23-2 | 89 |
| | | Xylazine | 007361-61-7 | 70 |



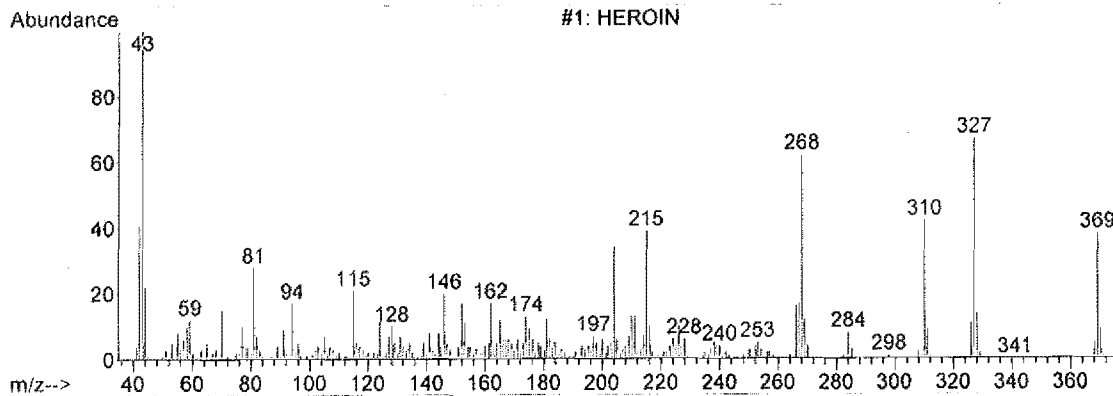
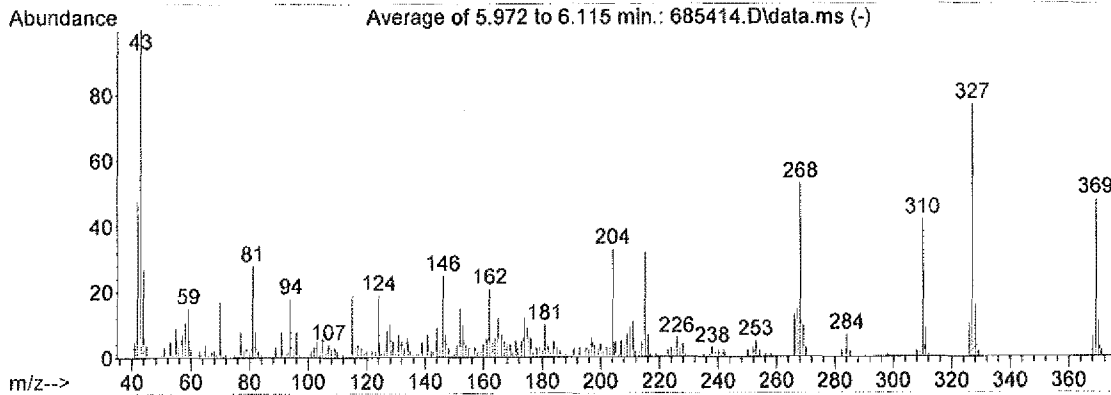
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_01_09\685414.D
 Operator : DJR
 Date Acquired : 1 Dec 2009 12:27
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 14
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

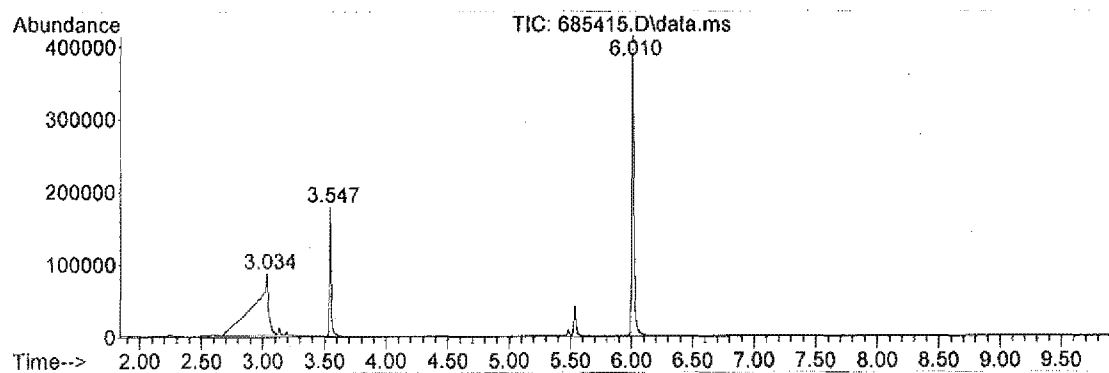
| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|-----------------------------|-------------|------|
| 3 | 6.01 | C:\Database\SLI.L HEROIN | 000561-27-3 | 98 |



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_01_09\685415.D
 Operator : DJR
 Date Acquired : 1 Dec 2009 12:40
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 15
 AcquisitionMeth: DRUGS.M
 Integrator : RTE



| Ret. Time | Area | Area % | Ratio % |
|-----------|--------|--------|---------|
| 3.034 | 741300 | 50.59 | 100.00 |
| 3.547 | 180525 | 12.32 | 24.35 |
| 6.010 | 543586 | 37.09 | 73.33 |

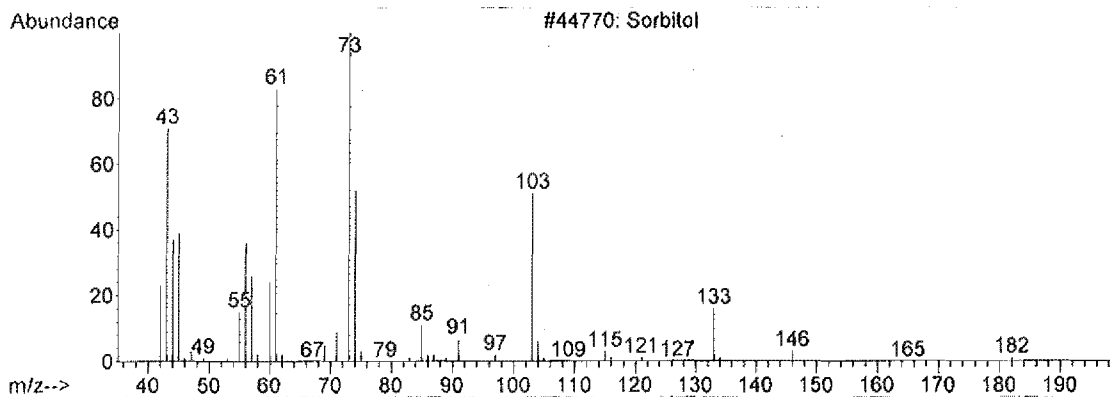
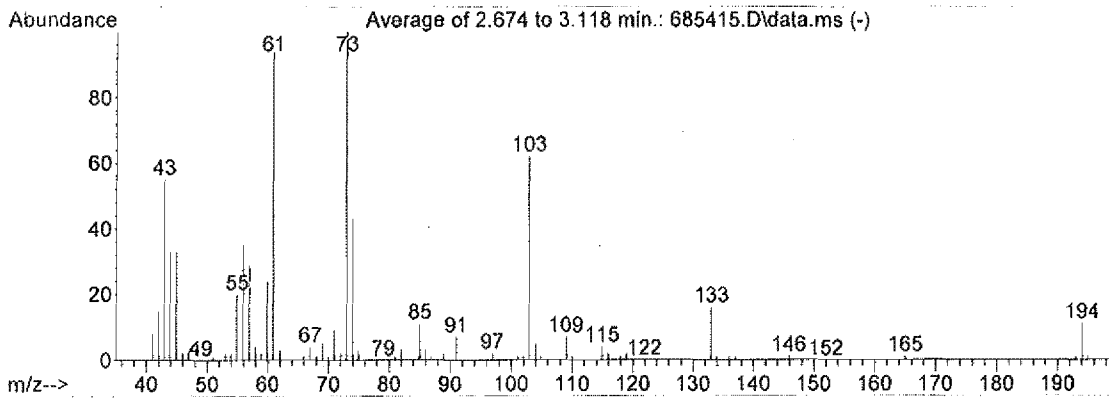
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_01_09\685415.D
 Operator : DJR
 Date Acquired : 1 Dec 2009 12:40
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 15
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|-----------------------|-------------|------|
| 1 | 3.03 | C:\Database\NIST05a.L | | |
| | | Sorbitol | 000050-70-4 | 91 |
| | | D-Mannitol | 000069-65-8 | 86 |
| | | Sorbitol | 000050-70-4 | 83 |



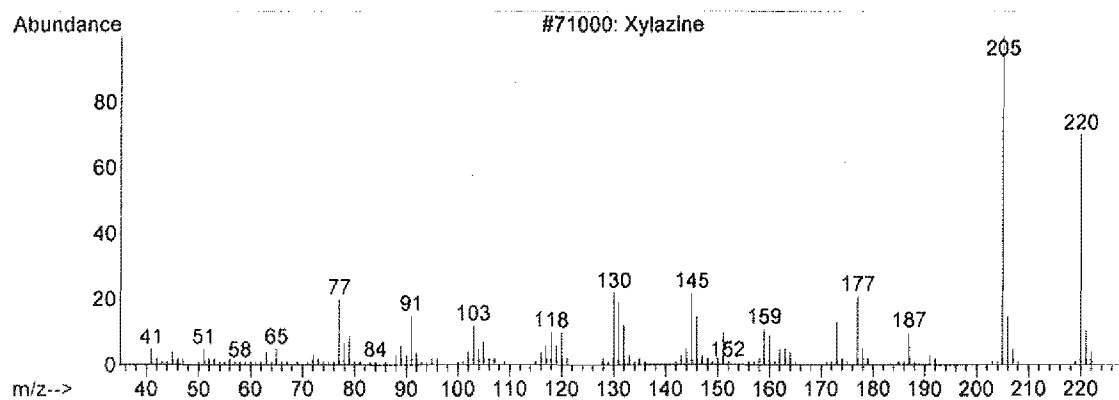
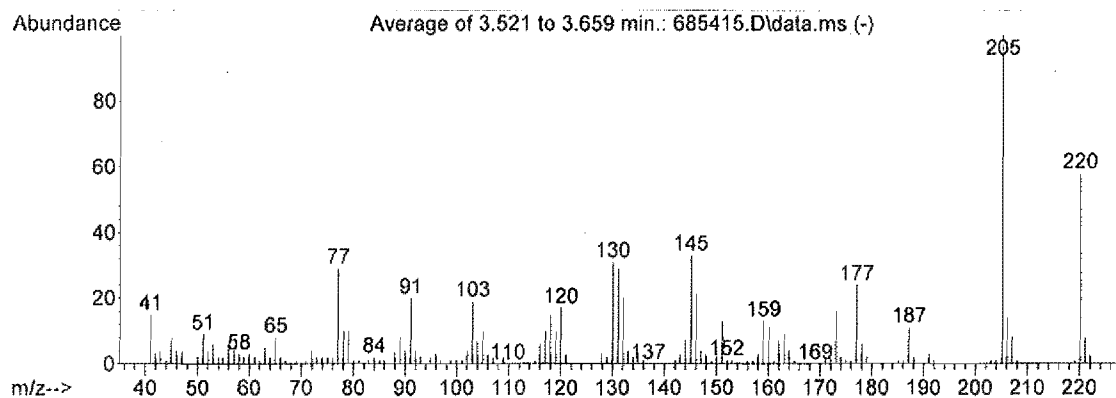
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_01_09\685415.D
 Operator : DJR
 Date Acquired : 1 Dec 2009 12:40
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 15
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|-----------------------|--------------|------|
| 2 | 3.55 | C:\Database\NIST05a.L | | |
| | | Xylazine | 007361-61-7 | 99 |
| | | Xylazine | 007361-61-7 | 98 |
| | | 9-Cedranone | 1000156-23-2 | 89 |



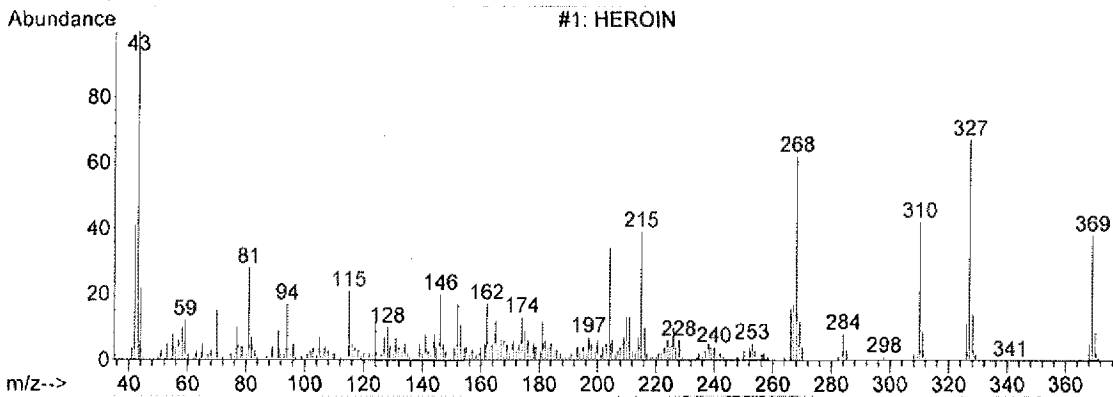
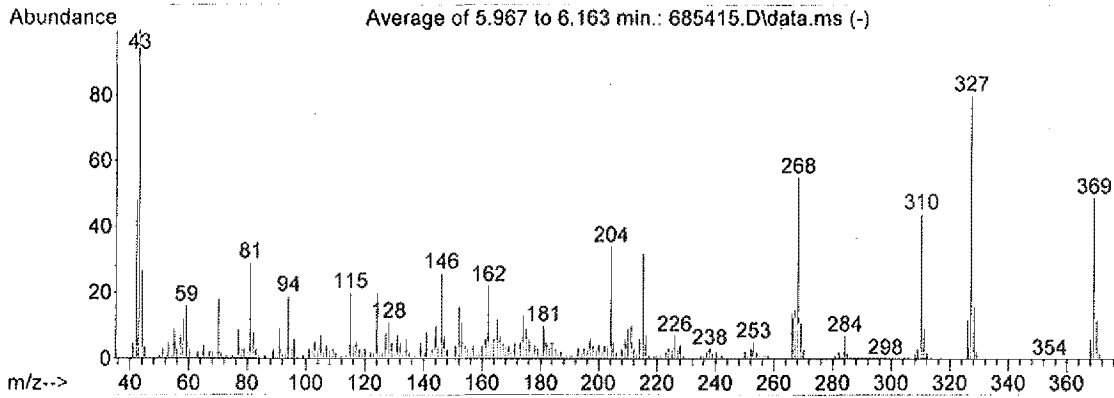
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_01_09\685415.D
 Operator : DJR
 Date Acquired : 1 Dec 2009 12:40
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 15
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

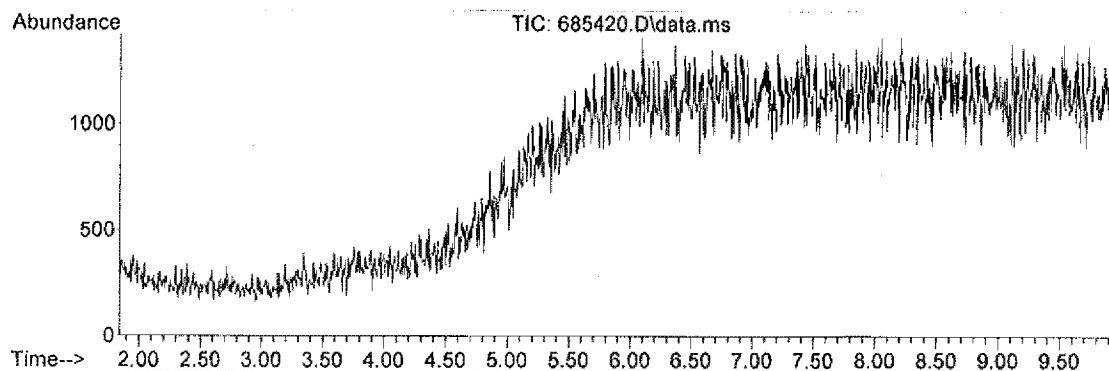
| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|-----------------------------|-------------|------|
| 3 | 6.01 | C:\Database\SLI.L HEROIN | 000561-27-3 | 98 |



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_01_09\685420.D
Operator : DJR
Date Acquired : 1 Dec 2009 13:43
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

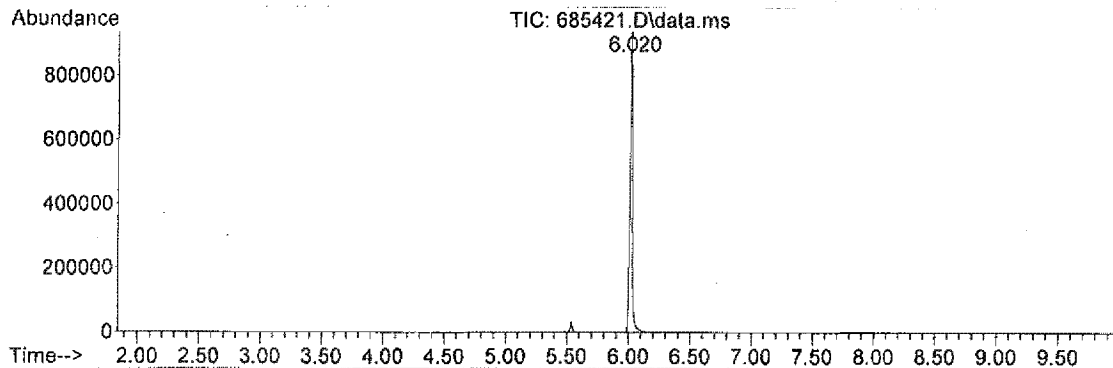


| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

NO INTEGRATED PEAKS

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_01_09\685421.D
Operator : DJR
Date Acquired : 1 Dec 2009 13:56
Sample Name : HEROIN STD
Submitted by :
Vial Number : 21
AcquisitionMeth: DRUGS.M
Integrator : RTE



| Ret. Time | Area | Area % | Ratio % |
|-----------|---------|--------|---------|
| 6.020 | 1358069 | 100.00 | 100.00 |

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2009\SYSTEM7\12_01_09\685421.D
 Operator : DJR
 Date Acquired : 1 Dec 2009 13:56
 Sample Name : HEROIN STD
 Submitted by :
 Vial Number : 21
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|-----------------------------|-------------|------|
| 1 | 6.02 | C:\Database\SLI.L HEROIN | 000561-27-3 | 99 |

